

Trade Date	Underlying	Option Root	Expiration Date	Strike Price	Kind	Start Time	State Code
20171206	IMMU	IMMU	20171215	6	C	11:54:11:841	Limit State
20171206	IMMU	IMMU	20171215	20	C	11:54:11:841	Limit State
20171206	IMMU	IMMU	20171215	19	P	11:54:11:841	Limit State
20171206	IMMU	IMMU	20171215	21	C	11:54:11:841	Limit State
20171206	IMMU	IMMU	20171215	20	P	11:54:11:841	Limit State
20171206	IMMU	IMMU	20171215	17	C	11:54:11:841	Limit State
20171206	IMMU	IMMU	20171215	10	C	11:54:11:841	Limit State
20171206	IMMU	IMMU	20171215	22	C	11:54:11:841	Limit State
20171206	IMMU	IMMU	20171215	15	C	11:54:11:841	Limit State
20171206	IMMU	IMMU	20171215	8	C	11:54:11:841	Limit State
20171206	IMMU	IMMU	20171215	18	C	11:54:11:841	Limit State
20171206	IMMU	IMMU	20171215	12	P	11:54:11:841	Limit State
20171206	IMMU	IMMU	20171215	11	C	11:54:11:841	Limit State
20171206	IMMU	IMMU	20171215	11	P	11:54:11:841	Limit State
20171206	IMMU	IMMU	20171215	3	C	11:54:11:841	Limit State
20171206	IMMU	IMMU	20171215	15	P	11:54:11:841	Limit State
20171206	IMMU	IMMU	20171215	10	P	11:54:11:841	Limit State
20171206	IMMU	IMMU	20171215	5	P	11:54:11:841	Limit State
20171206	IMMU	IMMU	20171215	17	P	11:54:11:841	Limit State
20171206	IMMU	IMMU	20171215	21	P	11:54:11:841	Limit State
20171206	IMMU	IMMU	20171215	9	P	11:54:11:841	Limit State
20171206	IMMU	IMMU	20171215	22	P	11:54:11:841	Limit State
20171206	IMMU	IMMU	20171215	14	P	11:54:11:841	Limit State
20171206	IMMU	IMMU	20171215	12	C	11:54:11:841	Limit State
20171206	IMMU	IMMU	20171215	16	C	11:54:11:841	Limit State
20171206	IMMU	IMMU	20171215	4	P	11:54:11:841	Limit State
20171206	IMMU	IMMU	20171215	3	P	11:54:11:841	Limit State
20171206	IMMU	IMMU	20171215	13	C	11:54:11:841	Limit State
20171206	IMMU	IMMU	20171215	13	P	11:54:11:841	Limit State
20171206	IMMU	IMMU	20171215	7	P	11:54:11:841	Limit State
20171206	IMMU	IMMU	20171215	9	C	11:54:11:841	Limit State
20171206	IMMU	IMMU	20171215	18	P	11:54:11:841	Limit State
20171206	IMMU	IMMU	20171215	8	P	11:54:11:841	Limit State
20171206	IMMU	IMMU	20171215	19	C	11:54:11:841	Limit State
20171206	IMMU	IMMU	20171215	6	P	11:54:11:841	Limit State
20171206	IMMU	IMMU	20171215	4	C	11:54:11:841	Limit State
20171206	IMMU	IMMU	20171215	7	C	11:54:11:841	Limit State
20171206	IMMU	IMMU	20171215	5	C	11:54:11:841	Limit State
20171206	IMMU	IMMU	20171215	16	P	11:54:11:841	Limit State
20171206	IMMU	IMMU	20171215	14	C	11:54:11:841	Limit State
20171206	IMMU	IMMU	20180119	10	P	11:54:11:841	Limit State
20171206	IMMU	IMMU	20180119	23	C	11:54:11:841	Limit State
20171206	IMMU	IMMU	20180119	21	P	11:54:11:841	Limit State
20171206	IMMU	IMMU	20180119	1.5	C	11:54:11:841	Limit State
20171206	IMMU	IMMU	20180119	18	C	11:54:11:841	Limit State
20171206	IMMU	IMMU	20180119	0.5	C	11:54:11:841	Limit State

20171206	IMMU	IMMU	20200117	12	P	11:54:11:841	Limit State
20171206	IMMU	IMMU	20200117	5	P	11:54:11:841	Limit State
20171206	IMMU	IMMU	20200117	10	P	11:54:11:841	Limit State
20171206	IMMU	IMMU	20200117	15	P	11:54:11:841	Limit State
20171206	IMMU	IMMU	20200117	20	C	11:54:11:841	Limit State
20171206	IMMU	IMMU	20200117	3	P	11:54:11:841	Limit State
20171214	LNCE	LNCE	20171215	22.5	C	14:29:58:721	Straddle State
20171214	LNCE	LNCE	20171215	20	C	14:29:58:721	Straddle State
20171214	LNCE	LNCE	20171215	50	C	14:29:58:721	Straddle State
20171214	LNCE	LNCE	20171215	17.5	P	14:29:58:721	Straddle State
20171214	LNCE	LNCE	20171215	45	C	14:29:58:721	Straddle State
20171214	LNCE	LNCE	20171215	40	C	14:29:58:721	Straddle State
20171214	LNCE	LNCE	20171215	30	C	14:29:58:721	Straddle State
20171214	LNCE	LNCE	20171215	35	P	14:29:58:721	Straddle State
20171214	LNCE	LNCE	20171215	17.5	C	14:29:58:721	Straddle State
20171214	LNCE	LNCE	20171215	25	P	14:29:58:721	Straddle State
20171214	LNCE	LNCE	20171215	25	C	14:29:58:721	Straddle State
20171214	LNCE	LNCE	20171215	35	C	14:29:58:721	Straddle State
20171214	LNCE	LNCE	20171215	30	P	14:29:58:721	Straddle State
20171214	LNCE	LNCE	20171215	40	P	14:29:58:721	Straddle State
20171214	LNCE	LNCE	20171215	22.5	P	14:29:58:721	Straddle State
20171214	LNCE	LNCE	20171215	20	P	14:29:58:721	Straddle State
20171214	LNCE	LNCE	20171215	50	P	14:29:58:721	Straddle State
20171214	LNCE	LNCE	20171215	45	P	14:29:58:721	Straddle State
20171214	LNCE	LNCE	20180119	35	C	14:29:58:721	Straddle State
20171214	LNCE	LNCE	20180119	22.5	C	14:29:58:721	Straddle State
20171214	LNCE	LNCE	20180119	40	C	14:29:58:721	Straddle State
20171214	LNCE	LNCE	20180119	25	C	14:29:58:721	Straddle State
20171214	LNCE	LNCE	20180119	22.5	P	14:29:58:721	Straddle State
20171214	LNCE	LNCE	20180119	30	P	14:29:58:721	Straddle State
20171214	LNCE	LNCE	20180119	50	C	14:29:58:721	Straddle State
20171214	LNCE	LNCE	20180119	45	P	14:29:58:721	Straddle State
20171214	LNCE	LNCE	20180119	35	P	14:29:58:721	Straddle State
20171214	LNCE	LNCE	20180119	45	C	14:29:58:721	Straddle State
20171214	LNCE	LNCE	20180119	30	C	14:29:58:721	Straddle State
20171214	LNCE	LNCE	20180119	50	P	14:29:58:721	Straddle State
20171214	LNCE	LNCE	20180119	25	P	14:29:58:721	Straddle State
20171214	LNCE	LNCE	20180119	40	P	14:29:58:721	Straddle State
20171214	LNCE	LNCE	20180119	20	C	14:29:58:721	Straddle State
20171214	LNCE	LNCE	20180119	20	P	14:29:58:721	Straddle State
20171214	LNCE	LNCE	20180316	45	P	14:29:58:721	Straddle State
20171214	LNCE	LNCE	20180316	22.5	P	14:29:58:721	Straddle State
20171214	LNCE	LNCE	20180316	30	C	14:29:58:721	Straddle State
20171214	LNCE	LNCE	20180316	35	P	14:29:58:721	Straddle State
20171214	LNCE	LNCE	20180316	25	P	14:29:58:721	Straddle State
20171214	LNCE	LNCE	20180316	50	C	14:29:58:721	Straddle State
20171214	LNCE	LNCE	20180316	40	P	14:29:58:721	Straddle State

20171214	LNCE	LNCE	20180316	35 C	14:29:58:721	Straddle State
20171214	LNCE	LNCE	20180316	20 C	14:29:58:721	Straddle State
20171214	LNCE	LNCE	20180316	30 P	14:29:58:721	Straddle State
20171214	LNCE	LNCE	20180316	22.5 C	14:29:58:721	Straddle State
20171214	LNCE	LNCE	20180316	25 C	14:29:58:721	Straddle State
20171214	LNCE	LNCE	20180316	45 C	14:29:58:721	Straddle State
20171214	LNCE	LNCE	20180316	50 P	14:29:58:721	Straddle State
20171214	LNCE	LNCE	20180316	40 C	14:29:58:721	Straddle State
20171214	LNCE	LNCE	20180316	20 P	14:29:58:721	Straddle State
20171214	LNCE	LNCE	20180615	40 P	14:29:58:721	Straddle State
20171214	LNCE	LNCE	20180615	55 C	14:29:58:721	Straddle State
20171214	LNCE	LNCE	20180615	50 P	14:29:58:721	Straddle State
20171214	LNCE	LNCE	20180615	25 P	14:29:58:721	Straddle State
20171214	LNCE	LNCE	20180615	55 P	14:29:58:721	Straddle State
20171214	LNCE	LNCE	20180615	35 C	14:29:58:721	Straddle State
20171214	LNCE	LNCE	20180615	20 C	14:29:58:721	Straddle State
20171214	LNCE	LNCE	20180615	50 C	14:29:58:721	Straddle State
20171214	LNCE	LNCE	20180615	30 P	14:29:58:721	Straddle State
20171214	LNCE	LNCE	20180615	22.5 P	14:29:58:721	Straddle State
20171214	LNCE	LNCE	20180615	22.5 C	14:29:58:721	Straddle State
20171214	LNCE	LNCE	20180615	35 P	14:29:58:721	Straddle State
20171214	LNCE	LNCE	20180615	20 P	14:29:58:721	Straddle State
20171214	LNCE	LNCE	20180615	40 C	14:29:58:721	Straddle State
20171214	LNCE	LNCE	20180615	45 P	14:29:58:721	Straddle State
20171214	LNCE	LNCE	20180615	30 C	14:29:58:721	Straddle State
20171214	LNCE	LNCE	20180615	25 C	14:29:58:721	Straddle State
20171214	LNCE	LNCE	20180615	45 C	14:29:58:721	Straddle State
20171226	INVE	INVE	20180119	10 C	10:19:26:066	Limit State
20171226	INVE	INVE	20180119	7.5 P	10:19:26:066	Limit State
20171226	INVE	INVE	20180119	7.5 C	10:19:26:066	Limit State
20171226	INVE	INVE	20180119	5 C	10:19:26:066	Limit State
20171226	INVE	INVE	20180119	5 P	10:19:26:066	Limit State
20171226	INVE	INVE	20180119	2.5 P	10:19:26:066	Limit State
20171226	INVE	INVE	20180119	2.5 C	10:19:26:066	Limit State
20171226	INVE	INVE	20180119	10 P	10:19:26:066	Limit State
20171226	INVE	INVE	20180216	5 C	10:19:26:066	Limit State
20171226	INVE	INVE	20180216	7.5 C	10:19:26:066	Limit State
20171226	INVE	INVE	20180216	2.5 C	10:19:26:066	Limit State
20171226	INVE	INVE	20180216	5 P	10:19:26:066	Limit State
20171226	INVE	INVE	20180216	7.5 P	10:19:26:066	Limit State
20171226	INVE	INVE	20180216	2.5 P	10:19:26:066	Limit State
20171226	INVE	INVE	20180420	10 C	10:19:26:066	Limit State
20171226	INVE	INVE	20180420	7.5 P	10:19:26:066	Limit State
20171226	INVE	INVE	20180420	7.5 C	10:19:26:066	Limit State
20171226	INVE	INVE	20180420	2.5 P	10:19:26:066	Limit State
20171226	INVE	INVE	20180420	10 P	10:19:26:066	Limit State
20171226	INVE	INVE	20180420	5 C	10:19:26:066	Limit State

20171226	INVE	INVE	20180420	2.5 C	10:19:26:066	Limit State
20171226	INVE	INVE	20180420	5 P	10:19:26:066	Limit State
20171226	INVE	INVE	20180720	5 C	10:19:26:066	Limit State
20171226	INVE	INVE	20180720	7.5 P	10:19:26:066	Limit State
20171226	INVE	INVE	20180720	5 P	10:19:26:066	Limit State
20171226	INVE	INVE	20180720	2.5 P	10:19:26:066	Limit State
20171226	INVE	INVE	20180720	7.5 C	10:19:26:066	Limit State
20171226	INVE	INVE	20180720	2.5 C	10:19:26:066	Limit State
20171228	CLMT	CLMT	20180119	1 C	09:38:43:610	Straddle State
20171228	CLMT	CLMT	20180119	7 C	09:38:43:610	Straddle State
20171228	CLMT	CLMT	20180119	2 P	09:38:43:610	Straddle State
20171228	CLMT	CLMT	20180119	14 P	09:38:43:610	Straddle State
20171228	CLMT	CLMT	20180119	13 P	09:38:43:610	Straddle State
20171228	CLMT	CLMT	20180119	4 P	09:38:43:610	Straddle State
20171228	CLMT	CLMT	20180119	11 P	09:38:43:610	Straddle State
20171228	CLMT	CLMT	20180119	9 P	09:38:43:610	Straddle State
20171228	CLMT	CLMT	20180119	6 P	09:38:43:610	Straddle State
20171228	CLMT	CLMT	20180119	10 C	09:38:43:610	Straddle State
20171228	CLMT	CLMT	20180119	6 C	09:38:43:610	Straddle State
20171228	CLMT	CLMT	20180119	4 C	09:38:43:610	Straddle State
20171228	CLMT	CLMT	20180119	11 C	09:38:43:610	Straddle State
20171228	CLMT	CLMT	20180119	1 P	09:38:43:610	Straddle State
20171228	CLMT	CLMT	20180119	16 C	09:38:43:610	Straddle State
20171228	CLMT	CLMT	20180119	8 P	09:38:43:610	Straddle State
20171228	CLMT	CLMT	20180119	5 C	09:38:43:610	Straddle State
20171228	CLMT	CLMT	20180119	3 P	09:38:43:610	Straddle State
20171228	CLMT	CLMT	20180119	3 C	09:38:43:610	Straddle State
20171228	CLMT	CLMT	20180119	12 C	09:38:43:610	Straddle State
20171228	CLMT	CLMT	20180119	10 P	09:38:43:610	Straddle State
20171228	CLMT	CLMT	20180119	15 P	09:38:43:610	Straddle State
20171228	CLMT	CLMT	20180119	8 C	09:38:43:610	Straddle State
20171228	CLMT	CLMT	20180119	15 C	09:38:43:610	Straddle State
20171228	CLMT	CLMT	20180119	13 C	09:38:43:610	Straddle State
20171228	CLMT	CLMT	20180119	5 P	09:38:43:610	Straddle State
20171228	CLMT	CLMT	20180119	7 P	09:38:43:610	Straddle State
20171228	CLMT	CLMT	20180119	2 C	09:38:43:610	Straddle State
20171228	CLMT	CLMT	20180119	12 P	09:38:43:610	Straddle State
20171228	CLMT	CLMT	20180119	16 P	09:38:43:610	Straddle State
20171228	CLMT	CLMT	20180119	14 C	09:38:43:610	Straddle State
20171228	CLMT	CLMT	20180119	9 C	09:38:43:610	Straddle State
20171228	CLMT	CLMT	20180216	14 P	09:38:43:610	Straddle State
20171228	CLMT	CLMT	20180216	3 C	09:38:43:610	Straddle State
20171228	CLMT	CLMT	20180216	13 P	09:38:43:610	Straddle State
20171228	CLMT	CLMT	20180216	6 C	09:38:43:610	Straddle State
20171228	CLMT	CLMT	20180216	14 C	09:38:43:610	Straddle State
20171228	CLMT	CLMT	20180216	5 P	09:38:43:610	Straddle State
20171228	CLMT	CLMT	20180216	15 P	09:38:43:610	Straddle State

20171228	CLMT	CLMT	20190118	3 P	09:38:43:733	Limit State
20171228	CLMT	CLMT	20190118	5 P	09:38:43:733	Limit State
20171228	CLMT	CLMT	20190118	17 C	09:38:43:733	Limit State
20171228	CLMT	CLMT	20190118	12 C	09:38:43:733	Limit State
20171228	CLMT	CLMT	20190118	17 P	09:38:43:733	Limit State
20171228	CLMT	CLMT	20190118	7 P	09:38:43:733	Limit State
20171228	CLMT	CLMT	20190118	3 C	09:38:43:733	Limit State
20171228	CLMT	CLMT	20190118	10 C	09:38:43:733	Limit State
20171228	CLMT	CLMT	20190118	15 P	09:38:43:733	Limit State
20171228	CLMT	CLMT	20190118	7 C	09:38:43:733	Limit State
20171228	CLMT	CLMT	20190118	10 P	09:38:43:733	Limit State
20171228	CLMT	CLMT	20190118	12 P	09:38:43:733	Limit State
20171228	CLMT	CLMT	20190118	15 C	09:38:43:733	Limit State
20171228	CLMT	CLMT	20190118	5 C	09:38:43:733	Limit State
20171228	CLMT	CLMT	20200117	15 C	09:38:43:733	Limit State
20171228	CLMT	CLMT	20200117	3 C	09:38:43:733	Limit State
20171228	CLMT	CLMT	20200117	10 C	09:38:43:733	Limit State
20171228	CLMT	CLMT	20200117	15 P	09:38:43:733	Limit State
20171228	CLMT	CLMT	20200117	12 P	09:38:43:733	Limit State
20171228	CLMT	CLMT	20200117	3 P	09:38:43:733	Limit State
20171228	CLMT	CLMT	20200117	5 P	09:38:43:733	Limit State
20171228	CLMT	CLMT	20200117	10 P	09:38:43:733	Limit State
20171228	CLMT	CLMT	20200117	12 C	09:38:43:733	Limit State
20171228	CLMT	CLMT	20200117	5 C	09:38:43:733	Limit State
20171228	CLMT	CLMT	20200117	7 C	09:38:43:733	Limit State
20171228	CLMT	CLMT	20200117	7 P	09:38:43:733	Limit State

PHLX Executed Volume	Weighted Quote Spread	Weighted BidSize	Weighted AskSize
0	4.25	88	20
0	0	0	0
0	4.443995471	25.43202887	40
0	4.499699264	0	52.54090008
0	4.383419432	23.32319015	40
0	4.499161477	0	82.51853948
0	4.499575402	0	77.98075154
0	0	0	0
0	4.499009341	0	77.9807529
0	4.15	30	20.00070766
0	4.499720492	0	52.53453156
0	4.249688628	10	19.99929234
0	4.1	2	87.46995966
0	4.399561248	10	22.18144505
0	4.497091501	64.026962	30.64340811
0	4.371750053	39.91012667	30.973038
0	2.999731088	0	10
0	4.5	0	78
0	4.443995471	32.58580426	40
0	4.199738164	19.71268842	40
0	1.479265355	0.5452964	52.13702663
0	4.390113934	37.59712688	20
0	4.099752318	10	47.98655438
0	4.4	2.002830456	78
0	0.3	0	15.13586187
0	4.499709878	0	77.99518823
0	2.100113218	0	27.27370507
0	0.3	14	1
0	4.399043142	78.32259785	20.57744882
0	4.498867818	0	77.9807529
0	4.504681197	19.20897318	65.81119524
0	4.385209822	24.61396929	40
0	0.95	17	1
0	4.49970634	0	82.5366544
0	4.5	0	78
0	4.350824429	50	31.77567051
0	3.989225816	91.67022858	19.86342085
0	4.399327719	30	47.8843677
0	4.167001628	23.22836317	40
0	4.498896122	0	82.49108406
0	2.97388197	20	97.14378715
0	4.499695726	0	92.9941268
0	4.499313566	99.70773477	50
0	3.7	128	10
0	4.499129635	0.002122842	92.98308803
0	0	0	0

0	4.5	0	93
0	4.382782535	10	93
0	3.7	10	2
0	3.629960374	0.002830456	2
0	0.2	0	2.000707614
0	4.5	0	112.9985848
0	3.6	88	10
0	2.762737051	19.36810076	10.00247665
0	0.999900934	0.002830456	2.002264365
0	1.849221625	10.00849137	30
0	2.99991508	1.00254759	10
0	4.49849632	0	92.97134164
0	4.405914516	58.31499633	15.47309462
0	4.497544406	0.193192272	92.97650556
0	4.47179959	127.6106433	35
0	4.499119021	0	101.4518115
0	3.818767249	33.23225533	85.3995471
0	4.49721888	77.78274715	60
0	4.485366544	9.390885933	98.57444098
0	4.499692188	0	112.9912963
0	3.7	128	10
0	4.642180866	0	96.37800736
0	4.499087178	0	92.98238041
0	3.049716954	20	28.88692329
0	4.399143727	79.74807162	55
0	4.499692188	0	112.9912963
0	3.8	22.07982583	10
0	4.368447023	76.12122424	40.57744882
0	4.491232043	29.778855	127.2558205
0	4.499140249	0	97.4990801
0	4.5	0	93
0	3.99989385	10.99356026	10
0	4.371679287	80.04741349	59.99929234
0	4.2	116.0012547	10
0	4.397133961	79.55558701	60
1	1.842708038	0.002830456	9.094395698
0	0.5	0	15
0	4.499702802	0	92.9941268
0	2.8	1	10
0	4.497254264	69.91508032	60
0	4.4993773	0	112.9854232
0	4.499140249	0	97.49695726
0	4.099929234	20	29.99292336
0	3.199603708	20	92.97721322
0	1.9	30	2
0	4.498896122	0	97.4825927
0	4.449023493	1	92.97792245

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